# **SIEMENS**

## Data sheet

# 3RT1036-1AK60-0UA0



CONTACTOR, 25HP 460/575V AC 110V 50HZ/ 120V 60HZ, 3-POLE, SIZE S2 SCREW CONNECTION NEMA SIZE 2

SIRIUS
power contactor
S2
690 V
6 kV
IP00
IP00
3
10 000 000
5 000 000
10 000 000
2 000 m
-25 +60 °C
FF 100 °C
-55 +80 °C
-55 +80 C

Number of NC contacts for main contacts	0
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C Rated value	60 A
● at AC-1 up to 690 V	
— at ambient temperature 40 °C Rated value	60 A
— at ambient temperature 60 °C Rated value	55 A
• at AC-3	
— at 400 V Rated value	50 A
— at 690 V Rated value	24 A
Connectable conductor cross-section in main circuit	
at AC-1	
<ul> <li>at 60 °C minimum permissible</li> </ul>	16 mm²
<ul> <li>at 40 °C minimum permissible</li> </ul>	16 mm²
Operating current for ≥ 200000 operating cycles at	
AC-4	24.4
• at 400 V Rated value	24 A
at 690 V Rated value	12.6 A
Operating current	
• with 1 current path at DC-1	FE A
— at 24 V Rated value	55 A
— at 110 V Rated value	4.5 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V Rated value	55 A
— at 110 V Rated value	25 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V Rated value	55 A
— at 110 V Rated value	55 A
Operating current	
<ul> <li>with 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V Rated value	35 A
— at 110 V Rated value	2.5 A
• with 2 current paths in series at DC-3 at DC-5	
— at 110 V Rated value	25 A
— at 24 V Rated value	55 A
• with 3 current paths in series at DC-3 at DC-5	
— at 110 V Rated value	55 A
— at 24 V Rated value	55 A
Operating power	
• at AC-1	
— at 230 V at 60 °C Rated value	22 kW
— at 400 V Rated value	38 kW

— at 690 V Rated value	66 kW
— at 690 V at 60 °C Rated value	66 kW
• at AC-2 at 400 V Rated value	22 kW
• at AC-3	
— at 230 V Rated value	15 kW
— at 400 V Rated value	22 kW
— at 500 V Rated value	30 kW
— at 690 V Rated value	22 kW
Operating power for ≥ 200000 operating cycles at	
AC-4	
● at 400 V Rated value	12.6 kW
● at 690 V Rated value	11.4 kW
Thermal short-time current restricted to 10 s	400 A
Active power loss at AC-3 at 400 V for rated value of	5 W
the operating current per conductor	
No-load switching frequency	
• at AC	5 000 1/h
Operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	800 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control:	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
● at 50 Hz Rated value	110 V
• at 60 Hz Rated value	120 V
Rated value	50 Hz
Control supply voltage frequency 2 Rated value	60 Hz
Operating range factor control supply voltage rated	
value of the magnet coil at AC	00.44
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
Apparent pick-up power of the magnet coil at AC	166 V·A
Inductive power factor with closing power of the coil	0.71
Apparent holding power of the magnet coil at AC	12.6 V·A

Inductive power factor with the holding power of the

0.37

10 ... 24 ms

7 ... 20 ms

coil

Closing delay

• at AC
Opening delay

• at AC

Arcing time	10 15 ms			
Auxiliary circuit:				
Number of NC contacts				
for auxiliary contacts				
<ul><li>instantaneous contact</li></ul>	0			
Number of NO contacts				
<ul> <li>for auxiliary contacts</li> </ul>				
<ul> <li>instantaneous contact</li> </ul>	0			
Operating current at AC-12 maximum	10 A			
Operating current at AC-15				
• at 230 V Rated value	6 A			
• at 400 V Rated value	3 A			
Operating current at DC-12				
• at 60 V Rated value	6 A			
• at 110 V Rated value	3 A			
• at 220 V Rated value	1 A			
Operating current at DC-13				
• at 24 V Rated value	10 A			
• at 60 V Rated value	2 A			
● at 110 V Rated value	1 A			
• at 220 V Rated value	0.3 A			
Contact reliability of the auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)			
UL/CSA ratings:				
Contact rating of the auxiliary contacts acc. to UL	A600 / Q600			
Short-circuit:				
Design of the fuse link				
<ul> <li>for short-circuit protection of the main circuit</li> </ul>				
<ul><li>— with type of assignment 1 required</li></ul>	fuse gL/gG: 160 A			
— with type of assignment 2 required	fuse gL/gG: 80 A			
• for short-circuit protection of the auxiliary switch	fuse gL/gG: 10 A			
required				
Installation/ mounting/ dimensions:				
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022			
Side-by-side mounting	Yes			
Height	112 mm			
Width	55 mm			
Depth	115 mm			
Required spacing				
• for grounded parts				
— at the side	6 mm			

Connections/ Terminals:	
Type of electrical connection	
• for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals
Type of connectable conductor cross-section	
• for main contacts	
— solid	2x (0.75 16 mm²)
— stranded	2x (0.75 25 mm²)
<ul> <li>single or multi-stranded</li> </ul>	2x (0,75 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.75 16 mm²)
<ul> <li>finely stranded without core end</li> </ul>	2x (0.75 16 mm²)
processing	
<ul> <li>for AWG conductors for main contacts</li> </ul>	2x (18 2)
Type of connectable conductor cross-section	
<ul><li>for auxiliary contacts</li></ul>	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG conductors for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 1x 12
Safety related data:	

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B10 value with high demand rate acc. to SN 31920	1 000 000
Proportion of dangerous failures	
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	73 %

## Certificates/ approvals:

#### **Functional Declaration of Test Certificates General Product Approval** Safety/Safety Conformity of Machinery Baumusterbescheini Typprüfbescheinigu spezielle





gung



ng/Werkszeugnis

Prüfbescheinigunge

n

#### **Shipping Approval**









GL





Shipping Approval	other		Railway		
	Umweltbestätigung	sonstig	Bestätigungen	Bestätigungen	



#### Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10361AK600UA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT10361AK600UA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT10361AK600UA0&lang=en

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